

IN THE CLAIMS

Please replace the claim listing with the following:

Claim 1 (currently amended): A device for imaging a printing form comprising:

a plurality of light sources;

imaging optics for producing a plurality of image spots of the light sources on the printing form, the imaging optics including at least one macro-optical system having refractive optical components,

wherein an optical path from the light sources to the image spots passes through the macro-optical system twice;

wherein neighboring image spots of the plurality of image spots of the light sources on the printing form have an equal distance a, equal distance a being a whole-number multiple of a minimum printing dot spacing p.

Claim 2 (original): The device for imaging as recited in claim 1 wherein the macro-optical system has an optical axis and the optical path is off-axis.

Claim 3 (original): The device for imaging as recited in claim 1 wherein the macro-optical system has an optical axis and the optical path runs symmetrically to the optical axis.

Claim 4 (currently amended): The device for imaging as recited in claim 1 wherein the macro-optic system has a first principal plane and a second principal plane both located on one side of the macro-optical system.

Claim 5 (currently amended): The device for imaging as recited in claim 1 further comprising at least one mirror ~~associated~~ within the macro-optical system.

Claim 6 (currently amended): The device for imaging as recited in claim 5 wherein the macro-optical system includes at least one adaptive optic part or the at least one mirror is adaptive.

Claim 7 (original): The device for imaging as recited in claim 1 wherein the macro-optical system includes at least one movable lens.

Claim 8 (original): The device for imaging as recited in claim 1 wherein the light sources are individually addressable lasers.

Claim 9 (original): The device for imaging as recited in claim 8 wherein the individually addressable lasers are diode lasers or solid lasers.

Claim 10 (original): The device for imaging as recited in claim 8 wherein the individually addressable lasers are integrated on a bar.

Claim 11 (currently amended): A device for imaging a printing form comprising:
a plurality of light sources;
imaging optics for producing a plurality of image spots of the light sources on
the printing form, the imaging optics including at least one macro-optical system having
refractive optical components,
wherein an optical path from the light sources to the image spots passes
through the macro-optical system twice;
~~The device for imaging as recited in claim 1~~ wherein the imaging optics includes a micro-optical system arranged downstream of the plurality of light sources and arranged upstream of the macro-optical system;
the micro-optical system producing a virtual intermediate image projected by
the macro-optical system.

Claim 12 (currently amended): The device for imaging as recited in claim 8-11 wherein the imaging optics includes a micro-optical system arranged downstream of the individually addressable lasers allowing beam diameters of the light beams emerging from the lasers to be influenced independently of each other in two orthogonal axes.

Claim 13 (canceled).

Claim 14 (currently amended): A device for imaging a printing form comprising:

a plurality of light sources;

imaging optics for producing a plurality of image spots of the light sources on the printing form, the imaging optics including at least one macro-optical system having refractive optical components,

wherein an optical path from the light sources to the image spots passes through the macro-optical system twice,

~~The device for imaging as recited in claim 1~~ further comprising at least one light-deflecting element, light of the plurality of light sources being coupled into the macro-optical system via the at least one light-deflecting element,

wherein the light-deflecting element is a Porro prism.

Claim 15 (canceled).

Claim 16 (currently amended): A device for imaging a printing form comprising:

a plurality of light sources;

imaging optics for producing a plurality of image spots of the light sources on the printing form, the imaging optics including at least one macro-optical system having refractive optical components,

wherein an optical path from the light sources to the image spots passes through the macro-optical system twice,

~~The device for imaging as recited in claim 1~~ wherein the macro-optical system is telecentric on both sides.

Claim 17 (original): The device for imaging as recited in claim 1 wherein the macro-optical system provides 1:1 imaging.

Claim 18 (original): The device for imaging as recited in claims 1 further comprising correction optics for adjusting an image size arranged downstream of the macro-optical system.

Claim 19 (original): The device for imaging as recited in claim 18 wherein the correction optics includes a zoom lens system with two lenses.

Claim 20 (canceled).

Claim 21 (currently amended): The device for imaging as recited in claim 1 wherein the number of the plurality ~~of~~ light sources is n , n being ~~relatively prime to~~ determined by the value of the number (a/p) .

Claim 22 (original): A printing unit comprising at least one device for imaging as recited in claim 1.

Claim 23 (original): A printing press comprising at least one printing unit as recited in claim 22.

Claim 24 (currently amended): A method for changing a relative position of an image spot with respect to a position of a printing form in a device for imaging a printing form, the device for imaging including a plurality of light sources and imaging optics for producing a plurality of image spots of the light sources on the printing form, the imaging optics including at least one macro-optical system

wherein neighboring image spots of the plurality of image spots of the light sources on the printing form have an equal distance a , equal distance a being a whole-number multiple of a minimum printing dot spacing p , the method including:

moving a lens in the macro-optical system, the macro-optical system being traversed twice by an optical path from the light sources to the image spots.

Claim 25 (canceled).

Claim 26 (new): The device for imaging as recited in claim 16 wherein the macro-optical system has an optical axis and the optical path is off-axis.

Claim 27 (new): The device for imaging as recited in claim 16 wherein the macro-optical system has an optical axis and the optical path runs symmetrically to the optical axis.

Claim 28 (new): The device for imaging as recited in claim 16 wherein the macro-optic system has a first principal plane and a second principal plane both located on one side of the macro-optical system.

Claim 29 (new): The device for imaging as recited in claim 16 further comprising at least one mirror within the macro-optical system.

Claim 30 (new): The device for imaging as recited in claim 29 wherein the macro-optical system includes at least one adaptive optic part or the at least one mirror is adaptive.

Claim 31 (new): The device for imaging as recited in claim 16 wherein the macro-optical system includes at least one movable lens.

Claim 32 (new): The device for imaging as recited in claim 16 wherein the light sources are individually addressable lasers.

Claim 33 (new): The device for imaging as recited in claim 32 wherein the individually addressable lasers are diode lasers or solid lasers.

Claim 34 (new): The device for imaging as recited in claim 33 wherein the individually addressable lasers are integrated on a bar.

Claim 35 (new): The device for imaging as recited in claim 16 wherein the imaging optics includes a micro-optical system arranged downstream of the plurality of light sources and arranged upstream of the macro-optical system.

Claim 36 (new): The device for imaging as recited in claim 16 wherein the imaging optics includes a micro-optical system arranged downstream of the individually addressable lasers allowing beam diameters of the light beams emerging from the lasers to be influenced independently of each other in two orthogonal axes.

Claim 37 (new): The device for imaging as recited in claim 16 wherein the macro-optical system provides 1:1 imaging.

Claim 38 (new): The device for imaging as recited in claims 16 further comprising correction optics for adjusting an image size arranged downstream of the macro-optical system.

Claim 39 (new): The device for imaging as recited in claim 38 wherein the correction optics includes a zoom lens system with two lenses.

Claim 40 (new): A printing unit comprising at least one device for imaging as recited in claim 16.

Claim 41 (new): A printing press comprising at least one printing unit as recited in claim 40.

Claim 42 (new): A method for changing a relative position of an image spot with respect to a position of a printing form in a device for imaging a printing form, the device for imaging including a plurality of light sources and imaging optics for producing a plurality of image spots of the light sources on the printing form, the imaging optics including at least one macro-optical system having refractive optical components, wherein an optical path from the light sources to the image spots passes through the

macro-optical system twice,
wherein the macro-optical system is telecentric on both sides,
the method including:

moving a lens in the macro-optical system, the macro-optical system being
traversed twice by an optical path from the light sources to the image spots.